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15 May 2000

Mr. Barry S. Drucker  
Contracting Officer's Technical Representative  
U.S. Department of the Interior  
Minerals Management Service  
Office of International Activities and Marine Minerals (INTERMAR)  
381 Elden Street, Mail Stop 4030  
Herndon, Virginia 20170-4817

Dear Mr. Drucker:

I am pleased to forward this copy of the fifteenth progress report for contract #1435-01-97-CT-30843, "Collection of Environmental Data Within Sand Resource Areas Offshore North Carolina and the Environmental Implications of Sand Removal for Coastal and Beach Restoration." The report covers the period 1 February through 30 April 2000.

We have made significant progress during this interval of time. Dr. Byrnes has provided a progress report detailing some of the areas where progress has been made (enclosed).

Please contact Dr. Byrnes or me if you have any questions about this progress report. I am pleased that the team is progressing well on this project.

I look forward to successful and high quality completion of these projects.

Sincerely,

David G. Aubrey, Ph.D.  
Project Manager

cc: M. Byrnes  
J. Carlson  
Chief, Environmental Branch

# Applied Coastal

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RESEARCH AND ENGINEERING, INC.

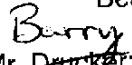
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May 5, 2000

Mr. Barry S. Drucker  
Contracting Officer's Technical Representative  
U.S. Department of the Interior  
Minerals Management Service  
Office of International Activities  
and Marine Minerals (INTERMAR)  
381 Elden Street, Mail Stop 4030  
Herndon, Virginia 20170-4817

**Subject:** Progress Report for Contract # 1435-01-97-CT-30843; February 1 to April 30, 2000

**Project Title:** Collection of Environmental Data Within Sand Resource Areas Offshore North Carolina and the Environmental Implications of Sand Removal for Coastal and Beach Restoration

  
Dear Mr. Drucker:

This letter serves as the fifteenth progress report for Contract #1435-01-97-CT-30843, "Collection of Environmental Data Within Sand Resource Areas Offshore North Carolina and the Environmental Implications of Sand Removal for Coastal and Beach Restoration". The contract award date was September 29, 1997. This report covers the period February 1 to April 30, 2000.

**1. Work Accomplished:** The most significant activity for the current reporting period was associated with Draft Technical Report preparation. A pre-draft version of the biological component report contribution was submitted to the MMS for initial review and comment. All activities associated with physical processes analyses were focused on contributions to the Draft Final Report. The following is a summary of activities by task.

**Task 1a. Field Data Collection (Spring):** Completed.

**Task 1b. Field Data Collection (Fall):** Completed

**Task 1c. Data Analysis:** An evaluation of regional sediment transport dynamics and spectral wave transformation model runs is near completion. Wave modeling results are being used as input for nearshore sediment transport modeling.

**Task 2. Coordination with the NCGS and Collection of Relevant Data:** Relevant technical literature continues to be evaluated for Draft Technical Report production.

**Task 3. Draft and Final Technical Report:** It is expected that the Draft Technical Report will be submitted to MMS in July 2000.

**Task 4. Draft and Final Executive Summary:** This task will commence once the Draft Technical Report has been reviewed by MMS personnel.

**Task 5. Draft and Final Technical Summary:** This task will commence once the Draft Technical Report has been reviewed by MMS personnel.

**Task 6. Draft and Final Non-Technical Summary:** This task will commence once the Draft Technical Report has been reviewed by MMS personnel.

**Task 7. Draft and Final Scientific Manuscript:** Not Applicable.

**Task 8. Presentation at MMS Information Transfer Meeting:** Not Applicable.

**Task 9. Presentation at Technical Conference:** Not Applicable.

**Task 10. Bi-Monthly Progress Reports:** This progress report represents the fifteenth of 15 over the lifetime of the project.

**Task 11. Presentation Slide Set:** Completed.

**Task 12. Meetings:** No formal meetings took place during the period of performance.

**Task 13. Program Management and Control Requirements:** Communication between Component Managers from Applied Coastal and CSA is maintained on a weekly basis to assure appropriate levels of coordination among tasks. Periodic internal meetings among project personnel from Applied Coastal, ACI, CSA, and BVA are conducted to monitor progress/problems related to tasks and subtasks.

**Task 14. Data Management:** All field data collection and analyses, as well as existing data analyses and numerical modeling efforts, follow the highest quality control and assurance standards to ensure data quality and proper analysis procedures. Data collected during the field surveys were catalogued for efficient access during the analysis phase, and all field and laboratory notes have been reviewed and archived for future use.

During the period February 1 to April 30, 2000, close coordination occurred between the Contracting Officer's Technical Representative (COTR; Barry Drucker) from MMS, the Project and Component Manager from Applied Coastal (Mark Byrnes), and the Biological Component Manager from CSA (Richard Hammer). Frequent contact among MMS, Applied Coastal, and CSA personnel has enhanced project implementation.

**2. Significant Problems:** No significant problems.

**3. Major Technical Findings:** All technical findings related to field data collection and analysis, as well as desktop modeling and analysis efforts, are being documented in the Draft Technical Report currently being prepared.

**4. Meetings Held:** No formal meetings were conducted during the period of performance. However, many phone conversations were conducted between Applied Coastal, CSA, BVA, MMS, and ACI to discuss progress and to maintain a high level of coordination among all project components.

**5. Major Activities for Next Two Months:** Preparation of the Draft Technical Report will continue.

**6. Questions or Problems:** No questions or problems.

If you have any questions concerning this Progress Report, please contact me directly at 508-539-3737 (voice), 508-539-3739 (fax), or via e-mail at [mbyrnes@appliedcoastal.com](mailto:mbyrnes@appliedcoastal.com).

Sincerely,



Mark R. Byrnes, Ph.D.  
Principal Investigator and  
Physical Processes Project Manager